FILE 'HOME' ENTERED AT 12:23:30 ON 11 DEC 2007

=> file reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 10 DEC 2007 HIGHEST RN 957336-90-2
DICTIONARY FILE UPDATES: 10 DEC 2007 HIGHEST RN 957336-90-2

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when
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REGISTRY includes numerically searchable data for experimental and
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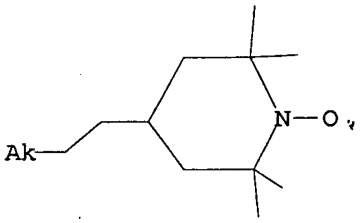
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10814342.str

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 12:24:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 61 TO ITERATE

100.0% PROCESSED 61 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.01

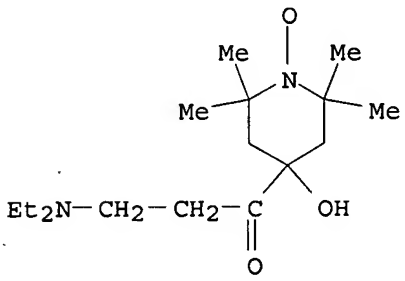
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS: 752 TO 1688
PROJECTED ANSWERS: 3 TO 163

L2 3 SEA SSS SAM L1

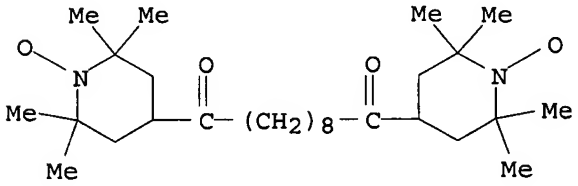
=> d scan

L2 3 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1-Piperidinyloxy, 4-[3-(diethylamino)-1-oxopropyl]-4-hydroxy-2,2,6,6-tetramethyl-
MF C16 H31 N2 O3

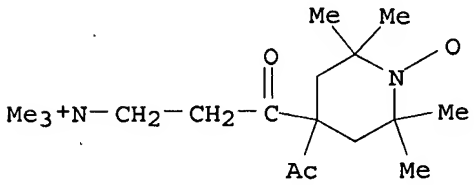


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

L2 3 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1-Piperidinyloxy, 4,4'-(1,10-dioxo-1,10-decanediyl)bis[2,2,6,6-tetramethyl- (9CI)
MF C28 H50 N2 O4



L2 3 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN
IN 1-Piperidinyloxy, 4-acetyl-2,2,6,6-tetramethyl-4-[1-oxo-3-(trimethylammonio)propyl]-
MF C17 H32 N2 O3
CI COM



ALL ANSWERS HAVE BEEN SCANNED

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=> s l1 full
FULL SEARCH INITIATED 12:24:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      1090 TO ITERATE

100.0% PROCESSED     1090 ITERATIONS                                  85 ANSWERS
SEARCH TIME: 00.00.01

L3            85 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   172.55     172.76

FILE 'CAPLUS' ENTERED AT 12:25:00 ON 11 DEC 2007
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FILE COVERS 1907 - 11 Dec 2007  VOL 147 ISS 25
FILE LAST UPDATED: 10 Dec 2007  (20071210/ED)

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=> s l3 (L) battery
            52 L3
        141088 BATTERY
L4           0 L3 (L) BATTERY

=> s l3 and battery
            52 L3
        141088 BATTERY
L5           1 L3 AND BATTERY

=> d l5 ibib

L5   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2004:822970  CAPLUS
DOCUMENT NUMBER:          141:317244
TITLE:                    Electrode for an electrochemical device
INVENTOR(S):              Inatomi, Yuu; Shimada, Mikinari; Mino, Norihasa; Hojo,
                          Nobuhiko
PATENT ASSIGNEE(S):       Matsushita Electric Industrial Co., Ltd., Japan
SOURCE:                   Eur. Pat. Appl., 15 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:
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     PATENT NO.            KIND   DATE        APPLICATION NO.          DATE
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     EP 1465269             A2    20041006    EP 2004-251966           20040401
     EP 1465269             A3    20060913
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
     US 2004197653          A1    20041007    US 2004-814342           20040401
     JP 2004319470          A     20041111    JP 2004-109347           20040401
     CN 1536689             A     20041013    CN 2004-10034251         20040405
PRIORITY APPLN. INFO.:                        JP 2003-99989        A   20030403


=> s l3 and electrode
           52 L3
       533493 ELECTRODE
L6          2 L3 AND ELECTRODE

=> d l6 1-2 ibib

L6   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2004:822970  CAPLUS
DOCUMENT NUMBER:          141:317244
TITLE:                    Electrode for an electrochemical device
INVENTOR(S):              Inatomi, Yuu; Shimada, Mikinari; Mino, Norihasa; Hojo,
                          Nobuhiko
PATENT ASSIGNEE(S):       Matsushita Electric Industrial Co., Ltd., Japan
SOURCE:                   Eur. Pat. Appl., 15 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.            KIND   DATE        APPLICATION NO.          DATE
     --------------        ----   --------    --------------------     --------
     EP 1465269             A2    20041006    EP 2004-251966           20040401
     EP 1465269             A3    20060913
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, HR
     US 2004197653          A1    20041007    US 2004-814342           20040401
     JP 2004319470          A     20041111    JP 2004-109347           20040401
     CN 1536689             A     20041013    CN 2004-10034251         20040405
PRIORITY APPLN. INFO.:                        JP 2003-99989        A   20030403

L6   ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         1993:13189  CAPLUS
DOCUMENT NUMBER:          118:13189
TITLE:                    Electrode reactions of nitroxide radicals.
                          Part 10.  Kinetics and mechanisms of the redox
                          reactions of the 2,2,6,6-tetramethylpiperidine-1-oxyl
                          derivatives in acetonitrile solutions on the gold
                          electrode.  Experiment and simulation analysis
AUTHOR(S):                Krzyczmonik, Pawel; Scholl, Henryk
CORPORATE SOURCE:         Inst. Chem., Lodz Univ., Lodz, 90 136, Pol.
SOURCE:                   Journal of Electroanalytical Chemistry (1992),
                          335(1-2), 233-51
                          CODEN: JECHES
DOCUMENT TYPE:            Journal
LANGUAGE:                 English


=> FIL STNGUIDE
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
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FULL ESTIMATED COST 10.51 183.27

FILE 'STNGUIDE' ENTERED AT 12:26:26 ON 11 DEC 2007
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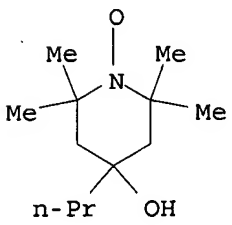
FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Dec 7, 2007 (20071207/UP).

=> d l6 2 hitstr ab kwic
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:y

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
IT 144913-88-2
RL: PRP (Properties)
(formal potential and diffusion and electrochem. redox reactions of, in acetonitrile)
RN 144913-88-2 CAPLUS
CN 1-Piperidinyloxy, 4-hydroxy-2,2,6,6-tetramethyl-4-propyl- (CA INDEX NAME)



AB The redox reaction Nox• .dblarw. Nox+ + e- of the 8 free nitroxide radicals, which are derivs. of 2,2,6,6-tetramethylpiperidine-1-oxyl, were investigated in MeCN solns. (c = 2.5 + 10-4-1 + 10-2 mol dm-3) on a Au working electrode. Cyclic voltammetry (v = 0.02-10.0 V s-1), impedance measurements, and controlled-potential electrolysis were used. The reaction parameters (E°f, Dox, αn) and the Taft coeffs. σ'' were calculated on the basis of the exptl. results. The kinetics and the mechanisms of these processes are discussed, and a model of the reaction mechanism with weak adsorption of both forms of the reactants is proposed on the basis of the simulation anal.

TI Electrode reactions of nitroxide radicals. Part 10. Kinetics and mechanisms of the redox reactions of the 2,2,6,6-tetramethylpiperidine-1-oxyl derivatives in acetonitrile solutions on the gold electrode . Experiment and simulation analysis

AB . . . of 2,2,6,6-tetramethylpiperidine-1-oxyl, were investigated in MeCN solns. (c = 2.5 + 10-4-1 + 10-2 mol dm-3) on a Au working electrode. Cyclic voltammetry (v = 0.02-10.0 V s-1), impedance measurements, and controlled-potential electrolysis were used. The reaction parameters (E°f, Dox, αn). . .

ST nitroxide radical redox electrochem gold electrode; tetramethylpiperidineoxyl deriv kinetics redox; diffusion adsorption nitroxide radical; formal potential Taft const redox

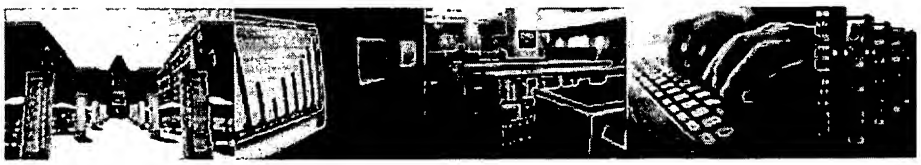
IT Transfer coefficient
(of nitroxide radicals, in acetonitrile, on gold electrode)

IT 7440-57-5, Gold, uses
RL: USES (Uses)
(electrode, nitroxide radicals redox reactions on, in acetonitrile)

IT 2226-96-2 2564-83-2, TEMPO 3229-52-5 3229-68-3 3229-75-2 104725-71-5 144913-88-2 144913-89-3 144913-90-6
RL: PRP (Properties)

(formal potential and diffusion and electrochem. redox reactions of, in acetonitrile)

STIC Scientific & Technical Information Center



NPL Services for Examiners

Search criteria: Refine or alter criteria

Article: Electrode reactions of nitroxide radicals. Part 10. Kinetics and mechanisms of the redox reactions of the 2,2,6,6-tetramethylpiperidine-1-oxyl derivatives in acetonitrile solutions on the gold electrode. Experiment and simulation analysis

Journal: Journal of electroanalytical chemistry
ISSN: 0368-1874 **Date:** 1992
Volume: 335 **Issue:** 1-2 **Page:** 233

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